

ACCEPTED

29 AUG 1979

UNDER THE FEDERAL INSECTICIDE
FUNGICIDE AND RODENTICIDE ACT
FOR ECONOMIC POISON REGISTER-
ED UNDER NO. 10182-4

PROXELTM PL

Industrial Microbiostat

For industrial use only as a bacterial slime control
agent in the pulp and paper manufacturing process.

Active Ingredient—30%
Inert Ingredients—70%

1,2-Benzisothiazolin-3-one

E.P.A. Reg. No. 10182-4
Est. Reg. No. 33909-EN-3

Contents: 440 lbs. net minimum (45 gal.)

See T. I. Bulletin Z10-8 for directions for use.

DANGER: KEEP OUT OF REACH OF CHILDREN. Corrosive. Causes eye and skin burns. Harmful or fatal if swallowed. May cause allergic skin reaction.

Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Avoid breathing mist. Use with forced ventilation. Wash thoroughly after handling. Avoid contamination of food or feed.

FIRST AID: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Wash clothing and decontaminate shoes before reuse. If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately.

NOTE TO PHYSICIAN: If ingested, probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression, and convulsion may be needed.

ENVIRONMENTAL HAZARDS: This product is toxic to fish. Treated effluent should not be discharged where it will drain into lakes, streams, ponds, or public water. In case of: Spill or leak — Flush away with water to a self-contained sewer or soak up with sand, earth, or synthetic absorbent and remove to chemical waste area where the material can be disposed of as a solid waste in accordance with state and local pollution regulations.

Container disposal — Do not reuse container. Puncture, crush, and bury in a sanitary landfill in accordance with state and local pollution regulations.

STORAGE: Protect from frost. If frozen, allow to thaw and stir well before use.



ICI Americas Inc.

Wilmington,
DE 19897

The product herein is licensed for use in accordance with U.S. Patent 3,065,123 and a royalty of 30 cents per pound has been included in the purchase price for such use. If the product herein is used in accordance with a method not covered by U.S. Patent 3,065,123, the royalty paid will be refunded if promptly requested. ICI Americas Inc. will, upon request, provide purchaser with a license at a non-discriminatory royalty per pound of 1,2-benzisothiazolin-3-one to use compositions obtained from other sources and containing 1,2-benzisothiazolin-3-one.

NET WEIGHT

LBS.

KILOS

LOT NUMBER

Am 9261 Rev 5-79

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PROXEL® PL

A Liquid Slime Control Agent for the Paper Industry

PROXEL PL is an effective agent for the control of slime producing bacteria in the paper making process. It provides effective control of a wide range of slime-forming organisms at a reasonably low dosage rate and is economical to use.

Organisms such as *Aerobacter aerogenes*, *Alcaligenes sp.* and *Flavobacterium sp.* found in typical paper making machine slime are effectively controlled.

Additional features of PROXEL PL are:

1. Ease of use due to its liquid form and good compatibility in most aqueous systems.
2. Long term storage stability.

PROPERTIES OF PROXEL PL

Composition:	Essentially an aqueous solution of an amine and 1,2-benzisothiazolin-3-one.
Physical Form and Appearance:	Clear or faintly turbid brown liquid.
Viscosity (25°C):	15.6 centipoise (typical value).
Density:	1.13 (typical value).
Reaction:	pH 9.5 to 11.5.
Solubility:	Miscible with water in all proportions.
Stability:	PROXEL PL is chemically stable. Dilute aqueous solutions are stable in the presence of electrolytes, e.g., aluminum sulfate and at pH levels down to approx. 4.5. The active ingredient is non-volatile.

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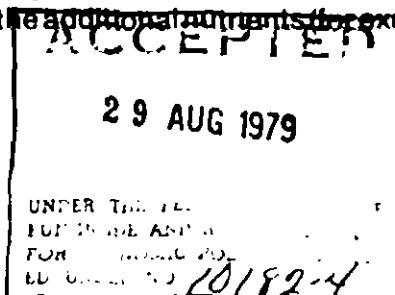
USE OF PROXEL PL

Slime Control

There are two methods of adding slimicides to paper mill systems: shock dosing and continuous dosing.

The preferred method of addition is by shock dosing since this ensures that a high concentration of PROXEL PL is present in the system for several hours. When a slime control agent is added by continuous methods over periods of several hours, its concentration in the system at any time is low. This can lead to the development of resistant organisms, an effect that is less likely to occur when the shock dosing method is used.

It is not possible to give precise recommendations as to the quantity of PROXEL PL to add to control slime formation, since the magnitude of the problem varies greatly from mill to mill, depending on the furnish employed, the cleanliness of the mill system, and the additional nutrients (for example, starch) that may be added to the stock.



Z10-8 (Replaces Technical Bulletin 322)

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added as a single daily shock dose, the actual quantity used depending on the severity of the slime problem.

This addition may be made to any part of the stock preparation or backwater system. Alternatively, the addition may be made to those parts of the system where it is known that slime deposits accumulate.

(b) Continuous Addition

If this method is adopted, PROXEL PL should be added continuously for either the single period of 8 hours during every 24 hours or for two separate periods of 4 hours during every 24 hours.

PROXEL PL should be metered at the rate of 125-150 g (4.5 oz. - 5.3 oz. av.) for each ton of paper produced during the dosing period. Preferably, this addition should be made to the recirculated backwater.

SAFETY

PROXEL PL can cause chemical burns to eyes and skin. Eye and skin contact should be avoided by the use of a face shield or splash proof safety goggles and rubber gloves. Techniques which eliminate direct handling, such as metering devices, are recommended.

PROXEL PL has little or no systemic effect by absorption of the skin. The dermal LD50 in rats is greater than 2 g per kg body weight. The oral LD50 for rats is in the range of 0.625 to 1.25 g per kg body weight.

If PROXEL PL is ingested, the patient should be given copious quantities of fluids, e.g., milk to drink. If water is given, two tablespoonsful of vinegar or orange juice or lemon juice should be added if available. Vomiting should not be induced. Consult physician immediately.

PROXEL PL on the skin should be removed by rinsing with copious quantities of water or by washing with soap and water. Consult a physician.

For splashes in the eye, immediately flush eyes with plenty of water and after emergency flushing, obtain medical treatment.

This product is toxic to fish. Treated effluent should not be discharged where it will drain into lakes, streams, ponds, or public water. The TL_m for rainbow trout and blue gill sunfish are 0.85 ppm for the trout and 5.50 ppm for the blue gill sunfish.

Do not reuse empty containers. Puncture, crush, and bury in sanitary landfill in accordance with state and local pollution regulations.

FOR YOUR PROTECTION

The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning uses or applications are only the opinion of ICI United States Inc. and users should make their own tests to determine the suitability of these products for their own particular purposes. However, because of numerous factors affecting results, ICI United States Inc. MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR PURPOSE, other than that the material conforms to its applicable current Standard Specifications. Statements herein, therefore, should not be construed as representations or warranties. The responsibility of ICI United States Inc. for claims arising out of breach of warranty, negligence, strict liability, or otherwise is limited to the purchase price of the material.

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